

# Adnan M. Kabbani

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## EDUCATION

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### Lebanese American University (LAU), Beirut, Lebanon

*B.S. in Computer Science*

- **Related Coursework:** Data Structures & Algorithms, Computer Organization & Programming, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Statistics & Applications

## EXPERIENCE

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### EZY.AI, AI-Powered Answer Engine Optimization (AEO) & Website Visibility Platform

*Aug 2025 - present*

*Team Lead & Core Developer Full Time*

- Led a development team while serving as core architect and primary developer of a multi-service SaaS platform (React 18 + TypeScript SSR via Vite, Node.js/Express, PostgreSQL, Redis) across 4 services: frontend, backend API, web indexer, and Multi Temporal workers.
- Designed a 12-widget AI analysis engine (robots.txt, llms.txt, schema.org, meta descriptions, XML sitemaps, FAQs, blogs, facts files, competitor benchmarking, Reddit presence, Search Console Setup) powered by custom Fine-tuned LLM models with an AI Assistant chat interface that is built on the OpenAI Agents SDK featuring 17+ domain-aware tools and streaming SSE responses.
- Built a distributed workflow orchestration layer using Temporal with 19 workflows, 78+ activities, and cron-based scheduled jobs for automated biweekly re-analysis and monthly content generation, all with deterministic execution, idempotent activities, and retry/timeout policies.
- Developed cross-platform CMS integration plugins: a WordPress PHP plugin (published to SVN), a Shopify app (React Router 7 + Prisma), a Cloudflare Workers edge integration for server-side HTML injection, and a universal EZY Connect script-injection system, enabling real-time management and performance metrics detection in depth.
- Implemented a multi-tenant agency system with organization hierarchy, role-based access control, client domain management, team invitations, analytics dashboards, and report generation.
- Integrated dual-region Stripe billing (UAE/US accounts) with checkout, subscription lifecycle webhooks, billing portal, and domain auto-analysis on successful payment; Google Search Console and Bing Webmaster OAuth for direct sitemap submission and URL inspection + Performance analysis; Reddit OAuth for brand monitoring and post generation.
- Engineered a resilient in-house web scraping with proxy rotation with per-domain circuit breakers, native fetch fallback, WAF-aware cache-busting strategies with BullMQ job queues, and built AI agent visit tracking to detect and log traffic from GPTBot, ClaudeBot, PerplexityBot, and other major LLM crawlers.
- Enforced production-grade security and performance: JWT auth, OAuth 2.0/1.0a flows, token encryption, signed URLs, Helmet CSP, rate limiting, connection pooling, Redis caching, N+1 prevention, batch operations, circuit breakers (Opossum), and structured logging with correlation IDs.

### AI Trading Assistant APP Krypteia, Project Based

*AI Software Engineer Project based*

*May 2025 - Aug 2025*

- Built a production-ready AI trading assistant using FastAPI, PostgreSQL, Redis, Celery, and Docker with microservices-ready architecture.
- Developed a multi-dimensional behavioral scoring engine with ML-driven drift detection and real-time trader guardrails.
- Integrated OpenAI GPT agentic tools for context-aware chat that adapts to a trader's behavioral state, with tooling for strategy optimization and risk assessment.
- Connected the assistant to live market data APIs and news feeds, grounding AI responses in real-time prices, trends, and sentiment.
- Engineered scalable data layer (25+ tables, async operations, connection pooling) and Celery background workers for heavy computations.

- Hardened with rate limiting, input sanitization, JWT auth, 90%+ test coverage (pytest), and full Swagger/OpenAPI documentation.

**xCell-On, Dubai, United Arab Emirates**

*May 2024 – May 2025*

*Machine Learning Engineer and Office Excel Add-In Developer Part-Time*

- Designed and developed an Excel add-in using the Office JavaScript API, automating complex spreadsheet workflows and enhancing data manipulation capabilities.
- Built robust error handling and logging mechanisms, ensuring high reliability and easier troubleshooting across diverse datasets.
- Integrated dynamic script generation via the OpenAI API and leveraged large language models for natural language processing, enabling on-demand data manipulation and analysis within Excel.
- Designed and implemented Full Agent flow including RAG and tool calling.
- Maintained and hosted full stack app on AWS using Lambdas, Code pipelines, Cognito, and many AWS tools.

**Vaut, Dubai, United Arab Emirates**

*November 2024 – Feb 2025*

*Full Stack Engineer Part-Time*

- Developed and maintained dynamic web applications by integrating robust front-end interfaces with scalable back-end services.
- Designed and implemented RESTful APIs, ensuring efficient data exchange and seamless integration with third-party services.
- Optimized application performance and improved user experience through responsive design, code refactoring, and continuous performance monitoring.

**BLOM BANK s.a.l., Beirut, Lebanon**

*June 2024 – August 2024*

*Backend Developer Internship*

- Designed and maintained secure backend services and APIs.
- Collaborated with front-end developers to integrate user-facing elements with server-side logic.
- Implemented authentication and authorization mechanisms.
- Utilized Spring Boot Java for backend development and Docker for containerization and deployment.

**Lebanese American University, Beirut, Lebanon**

*September 2023 – June 2024*

*Computer Center Assistant*

- Installed and configured software applications and operating systems.
- Supported network connectivity and resolved connectivity issues.
- Participated in IT projects, including system upgrades and network maintenance.

**Projects**

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**LAU Computer Science Club Member**, *Helped Organize University Events done by our club.*

*Teaching Assistant for Object Oriented Programming and Objects and Data Abstractions.*

**SKILLS**

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**Programming:** React.js, Next.js, Node.js, Python, Java, C#

**Tools:** AWS, Git, Gitlab, Terraform, TensorFlow, Docker, Visual Studio, Firebase, Slack, Linear, GCP, Azure, Temporal, Supabase